CLAIMS ONLY

SERIAL NO. FILING DATE

APPLICANT(S)

CLAIMS

| | AS FILED | | AFTER 1st AMENDMENT | | AFTER 2nd AMENDMENT | |
|-----------------|-----------------------|----------------|---------------------|----------|------------------------|------|
| | IND. | DEP. | IND. | DEP. | IND. | DEP. |
| 1 | <u> </u> | 1 | | | | |
| 2 | 1 | / | | _ | | |
| 3 | | , | | | | |
| 4 | 1 | - | | | | |
| 5 | | | l | | | |
| 6 | | | | | | |
| 7 | | | | | | |
| 8 | | | | | | |
| 9 | | | | _ | | 7.5. |
| 10 | | | | | | |
| 11 | | | | | | |
| 12 | | | | | | |
| 13 | | | | | | |
| 14 | | | | | | * |
| 15 | | | | | | - |
| 16 | | | | | | |
| 17 | | | | | | |
| 18 | i | | | | | |
| 19 | | | | | | - |
| 20 | | | | | | |
| 21 | | | | | | |
| 22 | | 1/ | | | | |
| 23 | | | | | | |
| 24 | | | | | | |
| 25 | | | | | | |
| 26 | | | | | | |
| 27 | | | | | | |
| 28 | | | | | | |
| 29 | | | | | | |
| 30 | | | | | | |
| 31 | | | | | | |
| 32 | | | | | | |
| 33 | | | | | | |
| 34 | | | | | | |
| 35 | | | | | | |
| 36 | | | | | | |
| 37 | | | | | | _ |
| 38 | | - | | | | |
| 39 | | - | | | ŀ | |
| 40 | | | | | | |
| 41 | $\sqcup \sqcup$ | \ | | | | |
| 42 | | \ | | | | |
| 43 | | | | | | |
| 44 | | | | | | |
| 45 | | | | | | |
| 46 | ├ | / | | | | |
| 47 | \vdash / \downarrow | | | | | |
| 48 | / | 4 | | | | |
| 49 | / | | | | | |
| 50 | 4 | : | | | | |
| TOTAL IND. | | | | | | Ī |
| TOTAL DEP. | | - | | — | | ₩. |
| TOTAL CLAIMS | | | | | 18 | |
| CLAIMS | | 7/4 | | X | i | |

| ND. DEP. IND. DEP. IND. | |
|---|----------|
| 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 | |
| 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 | DEP. |
| 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 | |
| 54 55 56 57 58 59 60 61 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 | |
| 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 | |
| 56 57 58 59 60 61 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 | |
| 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 | |
| 58 59 60 61 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 | |
| 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 | |
| 60 61 62 63 64 65 66 66 67 68 69 70 71 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 86 8 | |
| 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 | |
| 62 63 64 64 65 66 66 67 68 69 70 71 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 86 86 86 86 86 86 86 86 86 86 86 86 | |
| 63 64 64 65 66 66 67 68 69 70 70 71 71 72 73 74 75 76 77 78 78 79 80 81 82 83 84 85 86 86 8 | |
| 64 65 66 66 67 68 69 70 71 72 73 74 75 76 77 78 78 79 80 81 82 83 84 85 86 86 8 | |
| 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 | |
| 66 67 68 68 69 70 71 71 72 73 74 75 76 76 77 78 78 79 80 81 82 83 84 85 86 86 8 | |
| 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 | |
| 68 69 70 71 71 72 73 74 75 76 76 77 78 79 80 81 82 83 84 85 86 86 8 8 8 8 8 8 8 8 8 8 8 8 8 8 8 | |
| 69 | |
| 70 | |
| 71 | |
| 72 | |
| 73 | |
| 74 | |
| 75 76 77 78 79 79 79 79 79 79 | |
| 76 | |
| 77 78 79 80 81 82 83 84 85 86 | |
| 78 | |
| 79 80 81 82 83 84 85 86 86 86 88 88 88 88 88 88 88 88 88 88 | |
| 80 81 82 83 84 85 86 86 86 86 86 86 86 86 86 86 86 86 86 | |
| 81 82 83 84 85 86 86 86 86 86 86 86 86 86 86 86 86 86 | |
| 82 83 84 85 86 | |
| 83 84 85 86 86 86 86 86 86 86 86 86 86 86 86 86 | |
| 84 85 86 | |
| 85 86 | |
| 86 | |
| | _ |
| | |
| 88 | |
| 89 | |
| 90 | |
| 91 | |
| 92 | |
| 93 | - |
| 94 | \dashv |
| 95 | |
| 96 / / | |
| 97 / | |
| 98 / | |
| 99 / | |
| 100 | \dashv |
| TOTAL | |
| IND. | |
| DEP. | |
| TOTAL CLAIMS | |

* MAY BE USED FOR ADDITIONAL CLAIMS OR ADMENDMENTS

FORM PTO-2022 (1-98)

U.S.DEPARTMENT OF COMMERCE Patent and Trademark Office

CLAIMS ONLY

SERIAL NO. FILING DATE

APPLICANT(S)

CLAIMS

| | AS | FILED | | AFTER | | AFTER | |
|-----------------|--|--|--|--|--------------|----------------------------|--|
| | IND. DEP. | | IND. | 1st AMENDMENT IND. DEP. | | 2nd AMENDMENT IND. DEP. | |
| 1 | 1 | - | | - | | | |
| 2 | +} | | | | | | |
| 3 | ++ | 1 | | | | _ | |
| 4 | +- | - | <u> </u> | | | | |
| 5 | \ - | | | | - | | |
| | + \ | + | | | | | |
| 6 | | - | | ļ | | | |
| 7 | | | | | | | |
| 8 | + | | ļ | - | <u> </u> | | |
| 9 | | \ | ļ | | | | |
| 10 | _ | 1 | | | | | |
| 11 | | 1 | | | | | |
| 12 | ļ | 1 | | ļ | | | |
| 13 | | 11 | | | | | |
| 14 | ļ | 1 | | | | | |
| 15 | <u> </u> | | | | | | |
| 16 | 1 | | | | | | |
| 17 | | | | | | | |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |
| 21 | | | | <u> </u> | | | |
| 22 | | | | | | | |
| 23 | 1 | | | | | | |
| 24 | | | | | | | |
| 25 | | | | | | | |
| 26 | | | | | | | |
| 27 | | 1-1-1 | | | | | |
| 28 | 1 | | | | | | |
| 29 | | | | | | | |
| 30 | 1 | | | | | | |
| 31 | | | | | | | |
| 32 | | | | - | | | |
| 33 | +- | | | | | | |
| 34 | | | | - | | | |
| 35 | | 1 | | ļ | | | |
| | | - \- | | - | | | |
| 36 | | | | | | | |
| 37 | /- | - | | | | ····· | |
| 38 | ļ <i>!</i> | | | | | | |
| 39 | - | | | \vdash \leftarrow | | | |
| . 40 | | | | | | | |
| 41 | | | | $\sqcup \sqcup$ | | | |
| 42 | | | | | | | |
| 43 | ļ | | | | | | |
| 44 | | | - | | | | |
| 45 | | T | | | | | |
| 46 | | | | | | | |
| 47 | | | | | | | |
| 48 | | | | | | | |
| 49 | | | - | | | | |
| 50 | | | | - [] | + | | |
| TOTAL | | | | | | | |
| IND. | | _ | | _ • | | _1 | |
| TOTAL DEP. | L | | | | | _ | |
| TOTAL CLAIMS | | | | | 100 | | |

| IND. DEP. IND. | 15 | | | | | | | |
|--|----|-----------------|--|--|--|--|--|--|
| 51 | | | * | | * | | * | |
| S3 | | | IND. | DEP. | IND. | DEP. | IND. | DEP. |
| 53 | | / 51 | | | | | | |
| 54 55 56 57 58 59 60 61 61 62 63 7 64 55 66 67 68 69 70 70 71 71 72 73 74 75 76 76 77 77 78 79 80 81 82 83 84 85 86 87 88 89 99 90 91 92 93 94 95 96 97 98 99 99 100 100 1707AL 170EL 170 | | 52 | | i | | | | 1 |
| 55 56 57 58 59 60 60 61 62 63 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 99 100 Total Poel Poel Poel Poel Poel Poel Poel Poe | | | | | | | | |
| 56 57 58 59 60 61 62 63 64 65 66 66 66 66 67 68 69 70 71 72 73 74 75 76 77 78 78 79 80 81 82 83 84 85 86 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 Total Indo. I | | | | 1. | | | | |
| 57 58 59 60 61 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 78 79 80 81 82 83 84 85 86 87 88 89 90 91 90 91 92 93 94 95 96 97 98 99 90 100 TOTAL IND. | | 55 | <u> </u> | l i | |] | | |
| 58 59 60 61 61 62 63 | | 56 | <u> </u> | 11. | | | |]. |
| 59 60 61 61 62 63 63 64 65 66 66 67 68 69 70 71 72 73 74 75 75 76 77 78 79 80 80 81 82 83 84 85 86 87 88 88 89 90 90 91 91 92 93 94 95 96 97 98 99 100 TOTAL IND. IND. TOTAL IND. IND. IND. IND. IND. IND. IND. IND. | | 57 | _ | 11' | | | <u> </u> | |
| 60 61 61 62 63 63 64 65 66 66 66 67 68 68 69 70 70 71 71 72 73 74 75 76 76 77 78 78 79 80 80 81 82 83 84 85 86 87 88 89 90 90 91 91 92 93 94 95 96 97 98 99 99 100 TOTAL IND. TO | | | | <u> </u> | | | | |
| 61 | | | | | | | | |
| 62 63 63 64 65 66 66 67 66 66 67 68 68 69 70 70 71 71 72 73 74 75 76 77 78 79 80 81 82 83 84 84 85 86 87 88 89 90 90 91 91 92 93 94 95 96 97 98 99 9 100 1707AL IND. TOTAL IND. TOTAL IND. TOTAL IND. TOTAL IND. | | | ļ | | | | | <u> </u> |
| 63 | ļ | | 1 | 1 . | | ļ | | |
| 64 65 66 66 67 68 68 69 70 70 71 71 72 73 74 75 76 77 78 8 79 80 81 82 83 84 85 86 87 88 89 90 91 91 92 93 94 95 96 97 98 99 9 100 TOTAL IND. C. TOTAL IND. | | | | · | | <u> </u> | ļ | ļ <u> </u> |
| 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 91 100 Total Indo. Tota | | | - | ++- | | ļ <u>.</u> | | |
| 66 67 68 68 69 70 70 71 72 73 74 75 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 90 91 91 92 93 94 95 96 97 98 99 100 TOTAL IND. TOTAL DEP. | ı | - | | 1-1- | <u> </u> | ļ | | <u> </u> |
| 67 68 69 70 71 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 91 92 93 94 95 96 97 98 99 100 TOTAL INDIAL DER | - | | - | | <u> </u> | <u> </u> | | ļ |
| 68 69 70 71 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 TOTAL INDAL DEP. | - | | <u> </u> | ļ | ├ ─ | <u> </u> | <u> </u> | |
| 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 TOTAL LINDLAL PEP. | ı | | | - | | | <u> </u> | <u> </u> |
| 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 TOTAL IND. TOTAL DEP. | ł | | - | | | | ļ | ļ |
| 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 TOTAL IND. TOTAL DEP. | ł | | | | | }· | | |
| 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 TOTAL IND.AL DEP. | - | | | | | | | <u> </u> |
| 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 TOTAL IND. TOTAL DEP. | ŀ | | | | | | | |
| 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 TOTAL IND. TOTAL DEP. | ł | | ╂─── | | | | | |
| 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 TOTAL IND. TOTAL DEP. | ŀ | | | - | | | | |
| 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 TOTAL IND. TOTAL DEP. | ŀ | | | <u> </u> | | | | |
| 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 TOTAL IND. TOTAL DEP. | ŀ | | 1 | <u> </u> | | | | |
| 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 TOTAL IND. TOTAL DEP. | ł | | + | ļ | | | | <u> </u> |
| 79 80 81 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 TOTAL IND. TOTAL DEP. | ı | | | | | | | - |
| 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 TOTAL IND. TOTAL DEP. | ı | | | | | | | |
| 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 TOTAL IND. | İ | 80 | 1 | | | | | |
| 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 TOTAL IND. TOTAL DEP. | ı | 81 | | | | | | |
| 84 85 86 87 88 89 90 91 91 92 93 94 95 96 97 98 99 100 TOTAL IND. TOTAL DEP. | | 82 | | 1 | | | | |
| 85 86 87 88 89 90 91 91 92 93 94 95 96 97 98 99 100 TOTAL IND. TOTAL IND. TOTAL IND. | Ī | 83 | | | | | | |
| 86 87 88 89 90 90 91 92 93 94 95 96 97 98 99 100 TOTAL IND. TOTAL DEP. 9 4 | | 84 | | | | | | |
| 87 88 89 90 91 91 92 93 94 95 96 97 98 99 100 TOTAL IND. TOTAL DEP. | | 85 | | | | | | |
| 88 89 90 91 91 92 93 94 95 96 97 98 99 100 TOTAL IND. TOTAL IND. TOTAL JEP. | L | | | | | | | |
| 89 90 91 91 92 93 94 95 96 97 98 99 100 TOTAL IND. TOTAL IND. TOTAL DEP. | L | | <u> </u> | | | | | |
| 90 91 92 93 94 95 96 97 98 99 100 TOTAL IND.AL LEP. | L | | | | | | | |
| 91 92 93 94 95 96 97 98 99 100 TOTAL IND. I | ļ | 89 | <u> </u> | | | | | |
| 92 93 94 95 96 97 98 99 100 TOTAL IND. TOTAL DEP. | ļ | | | | | | | |
| 93 94 95 96 97 98 99 100 TOTAL IND. L TOTAL DEP. P | ŀ | | | | | | | |
| 94 95 96 97 98 99 100 TOTAL IND. TOTAL DEP. | ŀ | | | | | | | |
| 95 96 97 98 99 100 TOTAL IND. TOTAL DEP. | ŀ | | | | | | | |
| 96 97 98 99 100 TOTAL IND. TOTAL DEP. | ŀ | | | | | | | |
| 97 98 99 100 TOTAL IND. TOTAL DEP. 2 | ŀ | | - | | | | | |
| 98 99 100 TOTAL IND. TOTAL DEP. | ŀ | | | | | | | |
| 99 100 TOTAL IND. TOTAL DEP. | ŀ | | | | | | | |
| 100 TOTAL IND. TOTAL DEP. | + | | | | | | | |
| TOTAL IND. TOTAL DEP. 9 | H | | | | | | | |
| TOTAL DEP. 9 | H | | | - | | | | |
| TOTAL DEP. 94 | L | IND. | | J | | | | |
| TOTAL 7 CLAIMS 7 C | L | DEP. | | | | | | — |
| | | TOTAL CLAIMS | 16 | | | | | |

* MAY BE USED FOR ADDITIONAL CLAIMS OR ADMENDMENTS

FORM PTO-2022 (1-98)

U.S.DEPARTMENT OF COMMERCE Patent and Trademark Office